

# GEORGE ENGELMANN BOTANICAL NOTEBOOKS

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Brewer 1879. Oct 5 1862

"*Pinus contorta*"

(probably means *P. monilifera* <sup>No. 32</sup>)  
which Bolander also collected there)

Granite ridge, exposed to sea winds  
on Tomales Point -

very dense masses, like a wall  
bright dark green - trees much  
branched, rather squat wide  
spreading, forming beautiful trees  
cones remaining on the tree for  
a long time without opening.

note on a cone in Shars Coll. by me  
cone 1-sided, round, 3 sides long,  
 $1\frac{3}{4}$  thick, with stout scales,  
scales in  $\frac{2}{3}$  order  $8 \times 13$  rows most  
conspicuous.



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Ricōria Jeff. Co. Mo. May

Dr. Engleman

14

Dear Sir

As directed I  
gave Mr. Spencer Chin. 24 grains  
in 24 hours. Then 12 grains within  
8 hours in daytime, for 3 days.  
He seemed somewhat better while  
taking it though not at all free  
from headache. Now his head  
troubles him about the same as  
before. It is four days since he  
D. 1  
on 1, 1, 1.



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*Pinus muricata* Don  
Coulter's original specimen  
in Lamb. Pin. 3. tab 84  
copied in color  
p. 2269 fig 2180

*muricata*!!  
tree 30' tall  
 $\frac{1}{6}$



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P. muriata Letter of Bolander, March 1864

" N° 2 XX *Pinus contorta* ?? [no, *muriata*,  
aptly] flowering branches, young cones, old cones  
seedlings, bark of tree 40' high 53" circumference [17 inches diam] trunk naked  
lower branches horizontal, upper petioles,  
the broadoval or subtriangular  
Cones reflexed, persistent 4 or 5 years  
in whorls, 1-2 inches long  
Scattered or in small groups in the  
Lime Kiln hills at the head of  
Tomales bay, 5-8 miles from  
the ocean, 2000 feet high -  
Conglomerate rock - no other  
Pine about - fogs heavy  
the whole year round.

collected March 12 1864

— ~~Soil of Meadow~~ <sup>Soil of Meadow</sup> ~~Mouth of~~ <sup>Navarro</sup>  
Oct. 14. 1865 north of San Francisco, mouth of  
north of Albin ~~to~~ plain with *P. contorta*, which I  
now take for *P. Murrayana* — exactly the  
same as that from Tomales <sup>Lower</sup> — only larger -  
— Mendocino plains, a few miles eastward  
over



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of the City - with 2 Pines :

*P. contorta*? 60-100-120' high 1-2'  
mild winter - very irregular growth [B. says that  
this is *muricata*!]

*P. muricata*? ab-15 feet high  
Crestleader, one tree 20-25' covered  
with old cones, 18" diam; - top  
flat-conical. Specimen i.  
from a tree 15" circumfer. & 15' high

(Boulder July 19' 1866: Pines 15 feet high from  
Meadow. It is certainly ~~different~~ ~~and~~ ~~not~~ *contorta*  
and same as that from Monterey. *contorta*

| Nov. 28. 1867. *Contorta* ab from Meadow  
at Williams and Woodside ( )

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Hartweg's. cone



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*Pinus taeda*

Gordon's figure in Journ. Hartw. Soc. 4, 219. (1849.)  
For accompanying description see extract from "Pinaceum"



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observed at work  
(part) fig. 14. note that most in way of arborvitae  
but some of these are not very much, perhaps more with



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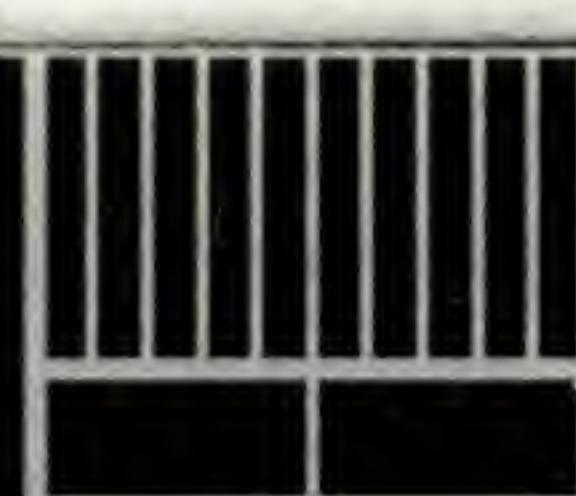


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Bolander May 13 1866: Meadow Pine  
*Pinus muricata*

The small Pine of Meadowino seems identical with that of Monterey. This latter grows on poor soil and the trees do not get old, die soon, rarely more than 10-20 feet high, 5-7 inches diameter. On Meadowino large and small trees are found, on peaty or wet soil and on dry slopes; large old trees near the sea coast.

Cones persistent, often a life time of the tree - Trees 1-3 feet diameter are often covered with them so as to be very ugly



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*Graffignastrum* Griseb.

Das glöckchenförmige Blattwerk ist meist  
halb so wüllig wie, jedoch auf den Zweigen  
reicher. Die blätter der Stiele sind nicht mehr  
so lebhaft und sind länglich, weiß bis in die  
Wippe. Der ganze Trunk ist von Blättern  
wie z.B. da das Blatt gewöhnlich quirlig  
ausgeht von dem Verzweigungsknorpel  
Montag oder Dienstag in gewöhnlichen  
Blättern fortgesetzt.

Indem ich mich Ihnen bedanke  
würde, habe ich die Ehr  
zu Ihnen

Leipzig,  
am 24. Mai 1857

Ehr

Für Sie

gegeben von

K. Graff, cand. Med.

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*Pinus muricata* Bolander - Att. Oct 14  
1865-

The fine specimens sent you are from a  
tree 15' high 15" diam. - with cones,  
in a damp depression near Monterey,  
2 miles from the Coast - Oct 6 1865.

Leaves deep green, bark smooth reddish  
Leaves long persistent. - On the specimen  
dark, marked; on dry soil appear  
different, and are probably the same  
as those sent from Meadowood.

( Cone of *P. muricata* 3 inches long (many  
with short broad straight prickles)

Bolander July 19 1866. ~~*P. muricata* Meadowood~~

~~15 feet high, but younger~~ 80-120 feet high

*P. muricata* from Meadowood is identical with  
the one from Monterey! "spars. - box"  
for a tree 15" diameter, 15' high we  
called it formerly *P. contorta*? 19/66

Nov 28. 1867: *P. muricata* sent from Tomales Bay,  
Meadowood City, ca Monterey.



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I have specimens of *Spiraea polyphylla* in flower and fruit sent to me by Dr Gray at least three years ago, collected by Mrs Brown in Brattleboro Vermont! I think he told me that his specimens were mislaid or lost. My analysis of the Dr Torrey's letter of Octob 11 1867 (misification agreed exactly with the excellent figures of Richard J. Grisebach in Archiv.

St Louis Aug 16 1870

My dear Doctor

The above is the extract of your letter of 1867 to which you allude.

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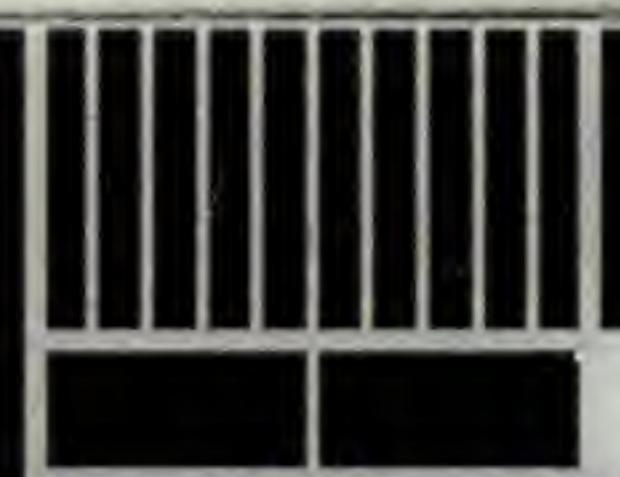
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Hartweg's Journal in, Hort. & Journal III. 267  
within two miles of the seashore of Monterey, found  
a new Pine, scattered to half a square mile,  
surrounded by *P. sargentii* - Thru'ly coarse  
decomposed Granite, called it *P. Edgardae*  
[= *P. manzate*] ]



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1679 *Pinus monilifera*

sub nom. *P. contorta*

Tonalea Point, exposed to sea winds.  
foliage very dense, seeming like a wall,  
bright & shining, dark green  
Trees squat, but of symmetrical shape,  
much branched.

Cone remaining on tree even 30 years  
or more, without opening

Cone 2½ long 1½ thick, very unequal,  
with very strong recurved or (on the less  
developed side) spreading spines.

Inf. Brewer Comm. 1871



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